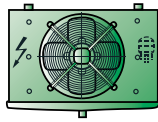
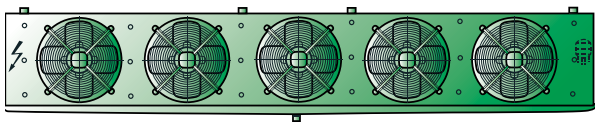




Application Benefits for Contractors and Operators



- ⊗ 250 mm
- ⊗ 300 mm
- ⊗ 400 mm
- ⊗ 500 mm

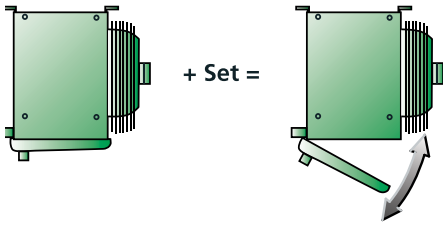


Expanded capacity range

- Up to 52 kW

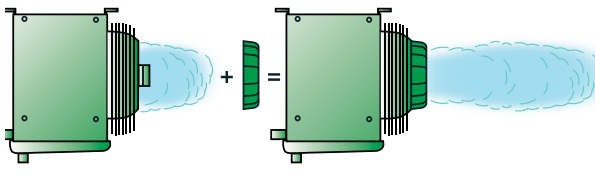
Closer-spaced capacity steps

- Thanks to five different fan sizes



Quick cleaning

- Hinged drain tray as accessory (can be retro-fitted)

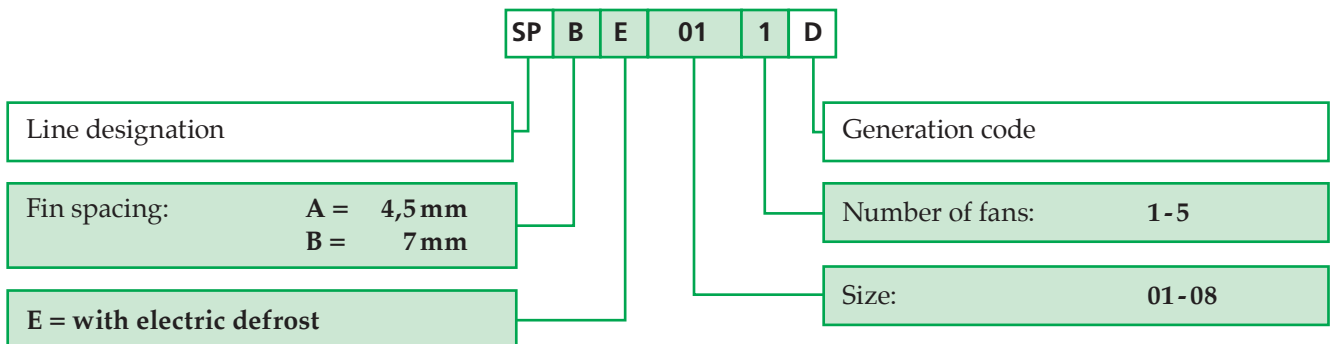


Increased air throw

- Küba Air Jet as accessory

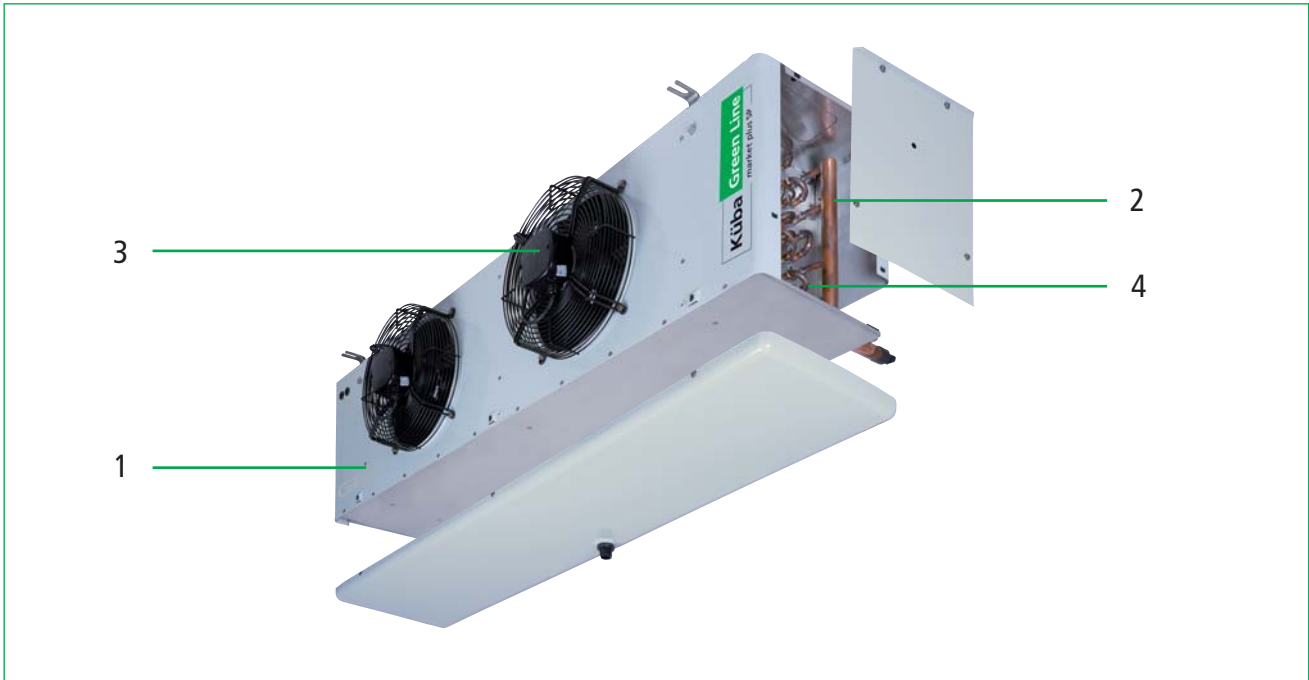
Nomenclature

Standard





Construction



1. Casing

- Aluminium, smooth
- High-quality powder coating, papyrus white RAL 9018
 - Food-safe
 - Easy to clean
 - Best corrosion protection
- Removable side pieces

2. Cooler

- Internal cleanliness acc. to DIN 8964
- Fin spacing: SPA.D: 4,5 mm, SPB.D: 7,0 mm
- Refrigerant distributor:
 - SPA.D: Flow distributor
 - SPB.D: Küba-CAL®
- Tubing Cu-Special, Fins Al, End plates Al

3. Fans CE

- Fans wired up to an internal terminal box
- Ø 250 mm / Ø 300 mm / Ø 400 mm / Ø 500 mm
- With built-in protector according to VDE provisions (Ø 500 mm: Led-out protector wired up in parallel)
- Application range: RT: -30 °C bis +50 °C
- Voltage:
 - SP. 011 – 065D = 230 V ±10 %, V-1 50/60 Hz, adjustable
 - SP. 071 – 084D = 400 V ±10 %, V-3 50/60 Hz

- Index of protection acc. to DIN 40050:

- SP. 011 – 024D = IP42
- SP. 031 – 065D = IP44
- SP. 071 – 084D = IP54

- Insulation class acc. to VDE 0700

- SP. 011 – 065D = Insulation class B
- SP. 071 – 084D = Insulation class F

- Operating values are the actual values of the built-in motor at +20 °C, with unobstructed air flow and a dry surface, as required for the refrigeration load calculation

Motor label data (max. allowable value +40 °C)

| | Ø mm | 50 Hz | | | 60 Hz | | |
|-------------|------|-------------------|-----|------|-------------------|-----|------|
| | | min ⁻¹ | W | A | min ⁻¹ | W | A |
| SP.01.-02.D | 250 | 1300 | 90 | 0,62 | 1550 | 80 | 0,55 |
| SP.03.-04.D | 300 | 1340 | 80 | 0,36 | 1460 | 112 | 0,48 |
| SP.05.-06.D | 400 | 1420 | 188 | 0,83 | 1630 | 270 | 1,20 |
| SP.07.-08.D | 500 | 1350 | 565 | 1,13 | 1450 | 830 | 1,50 |

4. Electric defrost

- Wired-up, ready to connect in terminal box
- The heater rods are mounted in special tube sleeves for rapid and even defrosting
- 230 V-1 / 400 V-3-Y
- With splash pan

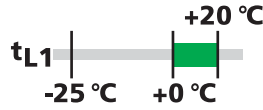


Technical data

SPA(E)...D



1,6 kW 52 kW



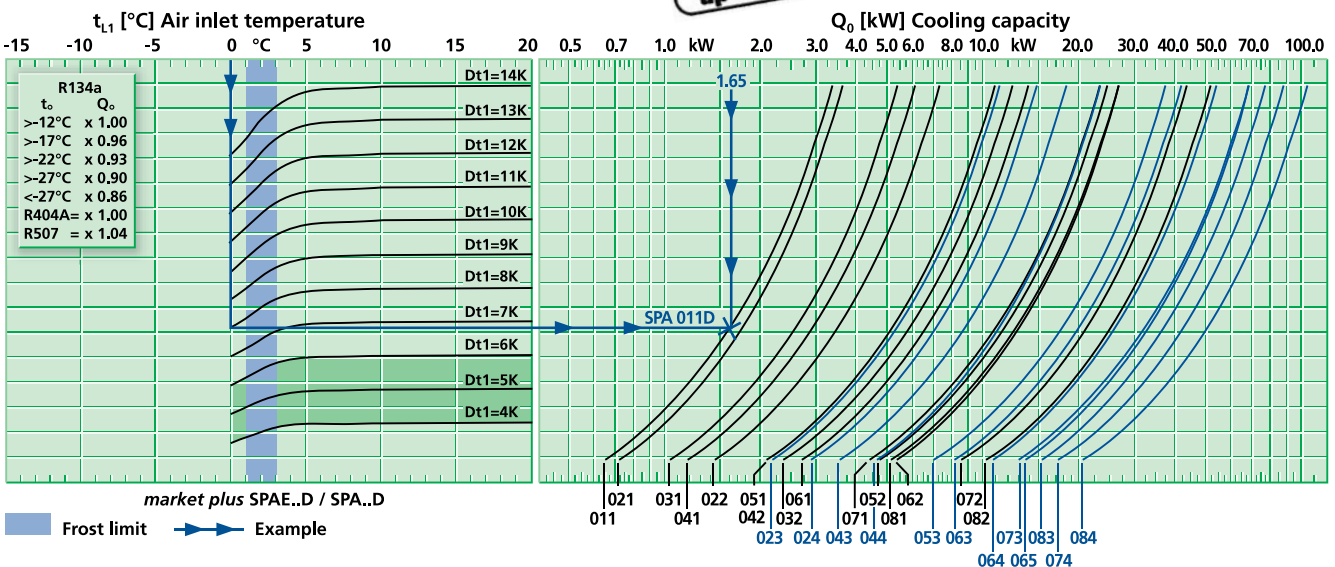
| Model | Rating Q_0 at 50 Hz DT1, R404A | | Surface m ² | Air flow m ³ /h | Air throw m | Tube volume dm ³ | Connections | | Sound L_{WA} ... | Blade St. x Ø mm | Fans \oplus (Operating values at 50 Hz) | | | |
|-----------------|--|---|---------------------------|-------------------------------|-------------------|-----------------------------------|---------------|----------------|-----------------------|---------------------|--|------------------------------|-----------|-------------|
| | $t_{L1} \pm 0^\circ\text{C}$ DT1 = 8K | $t_{L1} +10^\circ\text{C}$ DT1 = 10K | | | | | Inlet Ø mm | Outlet Ø mm | | | Type of current | Per Fan min ⁻¹ | W | A |
| SPA 011D | 1,65 | 2,44 | 6,9 | 820 | 4 | 1,4 | 10 | 12 | 63 | 1 x 250 | 230V -1 | 1347 | 85 | 0,59 |
| SPA 021D | 1,80 | 2,65 | 9,1 | 760 | 4 | 1,9 | 10 | 12 | 63 | 1 x 250 | 230V -1 | 1347 | 85 | 0,59 |
| SPA 031D | 2,65 | 3,93 | 10,3 | 1380 | 6 | 2,1 | 10 | 18 | 70 | 1 x 300 | 230V -1 | 1340 | 80 | 0,36 |
| SPA 041D | 3,00 | 4,44 | 13,6 | 1300 | 5 | 2,8 | 12* | 22 | 70 | 1 x 300 | 230V -1 | 1340 | 80 | 0,36 |
| SPA 051D | 6,05 | 8,98 | 20,5 | 3020 | 8 | 4,2 | 12* | 28 | 77 | 1 x 400 | 230V -1 | 1420 | 188 | 0,83 |
| SPA 061D | 6,83 | 10,1 | 30,6 | 2720 | 7 | 6,3 | 12* | 28 | 77 | 1 x 400 | 230V -1 | 1420 | 188 | 0,83 |
| SPA 071D | 11,3 | 16,8 | 36,3 | 5800 | 17 | 7,6 | 15* | 35 | 83 | 1 x 500 | 400V -3 | 1362 | 560 | 1,01 |
| SPA 081D | 13,1 | 19,3 | 54,2 | 5270 | 16 | 11,1 | 15* | 35 | 83 | 1 x 500 | 400V -3 | 1362 | 560 | 1,01 |
| SPA 022D | 3,62 | 5,34 | 18,2 | 1520 | 6 | 3,6 | 12* | 22 | 66 | 2 x 250 | 230V -1 | 1347 | 85 | 0,59 |
| SPA 032D | 5,33 | 7,90 | 20,6 | 2760 | 8 | 4,1 | 12* | 28 | 73 | 2 x 300 | 230V -1 | 1340 | 80 | 0,36 |
| SPA 042D | 6,02 | 8,92 | 27,3 | 2600 | 7 | 5,5 | 12* | 28 | 73 | 2 x 300 | 230V -1 | 1340 | 80 | 0,36 |
| SPA 052D | 11,9 | 17,7 | 40,9 | 6040 | 12 | 8,2 | 15* | 35 | 80 | 2 x 400 | 230V -1 | 1420 | 188 | 0,83 |
| SPA 062D | 13,4 | 19,7 | 60,9 | 5440 | 11 | 12,1 | 15* | 35 | 80 | 2 x 400 | 230V -1 | 1420 | 188 | 0,83 |
| SPA 072D | 21,7 | 31,9 | 72,7 | 11600 | 22 | 14,3 | 15* | 42 | 86 | 2 x 500 | 400V -3 | 1362 | 560 | 1,01 |
| SPA 082D | 25,7 | 37,9 | 108,3 | 10540 | 21 | 21,5 | 22* | 42 | 86 | 2 x 500 | 400V -3 | 1362 | 560 | 1,01 |
| SPA 023D | 5,51 | 8,16 | 27,3 | 2280 | 8 | 5,3 | 12* | 28 | 68 | 3 x 250 | 230V -1 | 1347 | 85 | 0,59 |
| SPA 043D | 8,96 | 13,3 | 40,9 | 3900 | 10 | 8,0 | 15* | 35 | 75 | 3 x 300 | 230V -1 | 1340 | 80 | 0,36 |
| SPA 053D | 18,2 | 27,0 | 61,4 | 9060 | 15 | 12,0 | 22* | 42 | 82 | 3 x 400 | 230V -1 | 1420 | 188 | 0,83 |
| SPA 063D | 20,6 | 30,4 | 91,5 | 8160 | 13 | 18,0 | 22* | 42 | 82 | 3 x 400 | 230V -1 | 1420 | 188 | 0,83 |
| SPA 073D | 33,4 | 49,5 | 109,2 | 17400 | 26 | 21,3 | 22* | 54 | 88 | 3 x 500 | 400V -3 | 1362 | 560 | 1,01 |
| SPA 083D | 38,3 | 56,3 | 162,7 | 15810 | 24 | 32,2 | 22* | 54 | 88 | 3 x 500 | 400V -3 | 1362 | 560 | 1,01 |
| SPA 024D | 7,26 | 10,7 | 36,3 | 3040 | 9 | 7,1 | 12* | 28 | 69 | 4 x 250 | 230V -1 | 1347 | 85 | 0,59 |
| SPA 044D | 11,7 | 17,2 | 54,5 | 5200 | 12 | 10,6 | 15* | 35 | 76 | 4 x 300 | 230V -1 | 1340 | 80 | 0,36 |
| SPA 064D | 26,9 | 39,6 | 122,0 | 10880 | 16 | 23,7 | 22* | 42 | 83 | 4 x 400 | 230V -1 | 1420 | 188 | 0,83 |
| SPA 074D | 43,5 | 64,1 | 145,5 | 23200 | 28 | 28,6 | 22* | 54 | 89 | 4 x 500 | 400V -3 | 1362 | 560 | 1,01 |
| SPA 084D | 51,6 | 76,1 | 216,9 | 21080 | 26 | 41,0 | 28** | 54 | 89 | 4 x 500 | 400V -3 | 1362 | 560 | 1,01 |
| SPA 065D | 34,1 | 50,4 | 152,4 | 13600 | 18 | 28,9 | 22* | 54 | 84 | 5 x 400 | 230V -1 | 1420 | 188 | 0,83 |

Multiple injection via * flow distributor, ** KÜBA-CAL® distributor
The technical data are also given in the product selection software.

*** Modification of sound power level, see page 59

Available for
CO₂-DX
up to 54 bar

Q_v - diagram (R22, R134A, R404A, R507)





Dimensions, electric defrost, weights

| Model | Dimensions [mm] | | | | | | | | | | Electric defrost 230 V-1 / 400 V-3-Y | | | Weight (net) | |
|----------|-----------------|------|-----|-----|----------------|----------------|----------------|-----|-----|-----|---|------|-------|--------------|-------|
| | H | B | T | L | E ₁ | E ₂ | E ₃ | F | A | W | Coil | Tray | Total | SPA.D | SPB.D |
| | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | kW | kW | kW | kg | kg |
| SP. 011D | 354 | 810 | 424 | 350 | 530 | - | - | 140 | 92 | 200 | 1,07 | 0,58 | 1,65 | 13 | 12 |
| SP. 021D | 354 | 810 | 424 | 350 | 530 | - | - | 140 | 92 | 200 | 1,07 | 0,58 | 1,65 | 15 | 14 |
| SP. 031D | 430 | 970 | 421 | 350 | 630 | - | - | 170 | 90 | 200 | 1,23 | 0,69 | 1,92 | 18 | 17 |
| SP. 041D | 430 | 970 | 421 | 350 | 630 | - | - | 170 | 90 | 200 | 1,23 | 0,69 | 1,92 | 19 | 18 |
| SP. 051D | 509 | 1180 | 501 | 420 | 780 | - | - | 200 | 100 | 300 | 2,07 | 0,88 | 2,95 | 27 | 26 |
| SP. 061D | 509 | 1180 | 501 | 420 | 780 | - | - | 200 | 100 | 300 | 2,90 | 0,88 | 3,78 | 32 | 31 |
| SP. 071D | 661 | 1430 | 592 | 500 | 1030 | - | - | 200 | 110 | 400 | 3,52 | 0,50 | 4,02 | 50 | 48 |
| SP. 081D | 661 | 1430 | 592 | 500 | 1030 | - | - | 200 | 110 | 400 | 5,52 | 0,50 | 6,02 | 60 | 58 |
| SP. 022D | 354 | 1310 | 424 | 350 | 1030 | - | - | 140 | 92 | 200 | 1,84 | 0,96 | 2,80 | 25 | 24 |
| SP. 032D | 430 | 1570 | 421 | 350 | 1230 | - | - | 170 | 90 | 200 | 2,14 | 1,15 | 3,29 | 31 | 30 |
| SP. 042D | 430 | 1570 | 421 | 350 | 1230 | - | - | 170 | 90 | 200 | 2,14 | 1,15 | 3,29 | 33 | 31 |
| SP. 052D | 509 | 1930 | 501 | 420 | 1530 | - | - | 200 | 100 | 300 | 3,90 | 1,44 | 5,34 | 48 | 46 |
| SP. 062D | 509 | 1930 | 501 | 420 | 1530 | - | - | 200 | 100 | 300 | 5,20 | 1,44 | 6,64 | 57 | 54 |
| SP. 072D | 661 | 2430 | 592 | 500 | 2030 | - | - | 200 | 110 | 400 | 6,74 | 0,86 | 7,60 | 89 | 86 |
| SP. 082D | 661 | 2430 | 592 | 500 | 2030 | - | - | 200 | 110 | 400 | 10,11 | 0,86 | 10,97 | 109 | 105 |
| SP. 023D | 354 | 1810 | 424 | 350 | 1530 | - | - | 140 | 92 | 200 | 2,60 | 1,30 | 3,90 | 35 | 33 |
| SP. 043D | 430 | 2170 | 421 | 350 | 1830 | - | - | 170 | 90 | 200 | 3,18 | 1,59 | 4,77 | 46 | 43 |
| SP. 053D | 509 | 2680 | 501 | 420 | 2280 | 750 | - | 200 | 100 | 300 | 5,63 | 1,95 | 7,58 | 70 | 67 |
| SP. 063D | 509 | 2680 | 501 | 420 | 2280 | 750 | - | 200 | 100 | 300 | 7,50 | 1,95 | 9,45 | 84 | 80 |
| SP. 073D | 661 | 3430 | 592 | 500 | 3030 | 1000 | - | 200 | 110 | 400 | 9,20 | 1,82 | 11,02 | 136 | 132 |
| SP. 083D | 661 | 3430 | 592 | 500 | 3030 | 1000 | - | 200 | 110 | 400 | 13,80 | 1,82 | 15,62 | 164 | 159 |
| SP. 024D | 354 | 2310 | 424 | 350 | 2030 | 1000 | - | 140 | 92 | 200 | 3,37 | 1,72 | 5,09 | 46 | 43 |
| SP. 044D | 430 | 2770 | 421 | 350 | 2430 | 1200 | - | 170 | 90 | 200 | 4,00 | 2,00 | 6,00 | 59 | 55 |
| SP. 064D | 509 | 3430 | 501 | 420 | 3030 | 1500 | - | 200 | 100 | 300 | 9,20 | 1,82 | 11,02 | 116 | 111 |
| SP. 074D | 661 | 4430 | 592 | 500 | 4030 | 2000 | - | 200 | 110 | 400 | 12,72 | 2,39 | 15,11 | 178 | 173 |
| SP. 084D | 661 | 4430 | 592 | 500 | 4030 | 2000 | - | 200 | 110 | 400 | 19,08 | 2,39 | 21,47 | 221 | 215 |
| SP. 065D | 509 | 4180 | 501 | 420 | 3780 | 1500 | 2250 | 200 | 100 | 300 | 11,92 | 2,24 | 14,16 | 146 | 141 |

EXPLICATIF DE LA DÉSIGNATION DES NOMS DES MODÈLES

T A J N T 4 5 1 9 Z H R

Absence de lettre = à vanne ou à souder
Lettre "R" = avec bouteille

H = Haute pression d'aspiration (-15°C à +15°C)
B = Basse pression d'aspiration (-40°C à -10°C)
M = Moy. et haute pression d'aspiration (-25°C à +15°C)

A, B, C ou D = Réfrigérant R-12
C = Réfrigérant R-407C (Conditionnement de l'air)
E, F, G ou H = Réfrigérant R-22
M = Réfrigérant R-600a
T = Réfrigérant R-22 ou R-502
U = Réfrigérant R-290
W = Réfrigérants R-407C / R-22
Y = Réfrigérant R-134a
Z = Réfrigérant R-404A ou R-407B ou R-507

Correspond aux premiers chiffres de la puissance frigorifique exprimée en BTU/h à 60 Hz suivant les conditions d'annonce données en pages 8 et 9 du catalogue.
Exemple : 19 précédé du chiffre 5 signifie : 19 000 BTU/h

Nombre de chiffres composant la puissance frigorifique
Exemple : 19 000 BTU/h

Applications

- 1 = Basse pression d'évaporation. Moteur avec couple de démarrage normal.
- 2 = Basse pression d'évaporation. Moteur avec haut couple de démarrage.
- 3 = Haute pression d'évaporation. Moteur avec couple de démarrage normal.
- 4 = Haute pression d'évaporation. Moteur avec haut couple de démarrage.
- 5 = Conditionnement d'air.
- 9 = Moyenne et haute pression d'évaporation. Moteur avec haut couple de démarrage.
- 0 = Moyenne et haute pression d'évaporation. Moteur avec couple de démarrage normal.

Groupes de condensation

T = HTA (Haute Température Ambiante)
S = Groupes de condensation mono-ventilateur

Groupes de condensation

N = Nouveau modèle AJ

Compresseurs

La lettre **P** désigne les compresseurs destinés au montage en parallèle.
La lettre **D** désigne les compresseurs ou groupes montés en "duo".
La lettre **TR** désigne les compresseurs montés en "trio".
La lettre **V** désigne les compresseurs embarqués.

Familles : THB-AEZ-AE-AJ-FH-AG-HGA-RGA-RK-VS.

Sans lettre = monophasés bas couple
C = monophasés haut couple
T = triphasés

↑ Désignation compresseur
↓ Désignation groupe de condensation

Compresseurs ou groupes livrés chargés en huile sous pression d'azote avec jeux de suspension.
Vannes orientables livrées non montées.

Nota : les caractéristiques données dans ce catalogue peuvent évoluer sans avis préalable, avec les améliorations que TECUMSEH EUROPE entend toujours apporter à sa production.

EXPLANATION OF EACH MODEL NAMES AND DESIGNATION

T A J N T 4 5 1 9 Z H R

No letter = with valves or brased
Letter "R" = with receiver

H = High inlet pressure (-15°C to +15°C)
B = Low inlet pressure (-40°C to -10°C)
M = Medium and high inlet pressure (-25°C to +15°C)

A, B, C ou D = Refrigerant R-12
C = Refrigerant R-407C (Air Conditioning)
E, F, G ou H = Refrigerant R-22
M = Refrigerant R-600a
T = Refrigerant R-22 ou R-502
U = Refrigerant R-290
W = Refrigerant R-407C / R-22
Y = Refrigerant R-134a
Z = Refrigerant R-404A ou R-407B ou R-507

Corresponds to the two first figures of the refrigerating capacity expressed in BTU/h at 60 Hz depending on test conditions given in pages 8 and 9 of general catalogue.
Example: 19 preceded by the figure 5 means: 19 000 BTU/h

Number of figures composing the refrigerating capacity
Example: 19 000 BTU/h

Applications

- 1 = Low back pressure. Motor with normal starting torque
- 2 = Low back pressure. Motor with high starting torque
- 3 = High back pressure. Motor with normal starting torque
- 4 = High back pressure. Motor with high starting torque
- 5 = Air conditioning
- 9 = Medium and high back pressure. Motor with high starting torque
- 0 = Medium and high back pressure. Motor with normal starting torque

Condensing units

T = HTA (High Ambient Temperature)
S = Single fan condensing units

Condensing units

N = New AJ model

Compressors

The letter **P** designates compressors designed to be mounted in parallel
The letter **D** designates compressors or condensing units intended for dual operation
The letter **TR** designates compressors intended for trial operation
The letter **V** designates compressors intended for mobile application

Families: THB-AEZ-AE-AJ-FH-AG-HGA-RGA-RK-VS.

No letter = single-phase low starting torque
C = single-phase high starting torque
T = three-phase

↑ Compressor designation
↓ Condensing unit designation

Compressors or condensing units delivered charged with oil - a nitrogen holding charges and set of rubber mountings. Rotalock valves are delivered non mounted.

Note: in a constant endeavour to improve its products, TECUMSEH EUROPE reserves the right to change any information contained in the catalogue without prior warning.

→ **Compresseurs / Compressors**

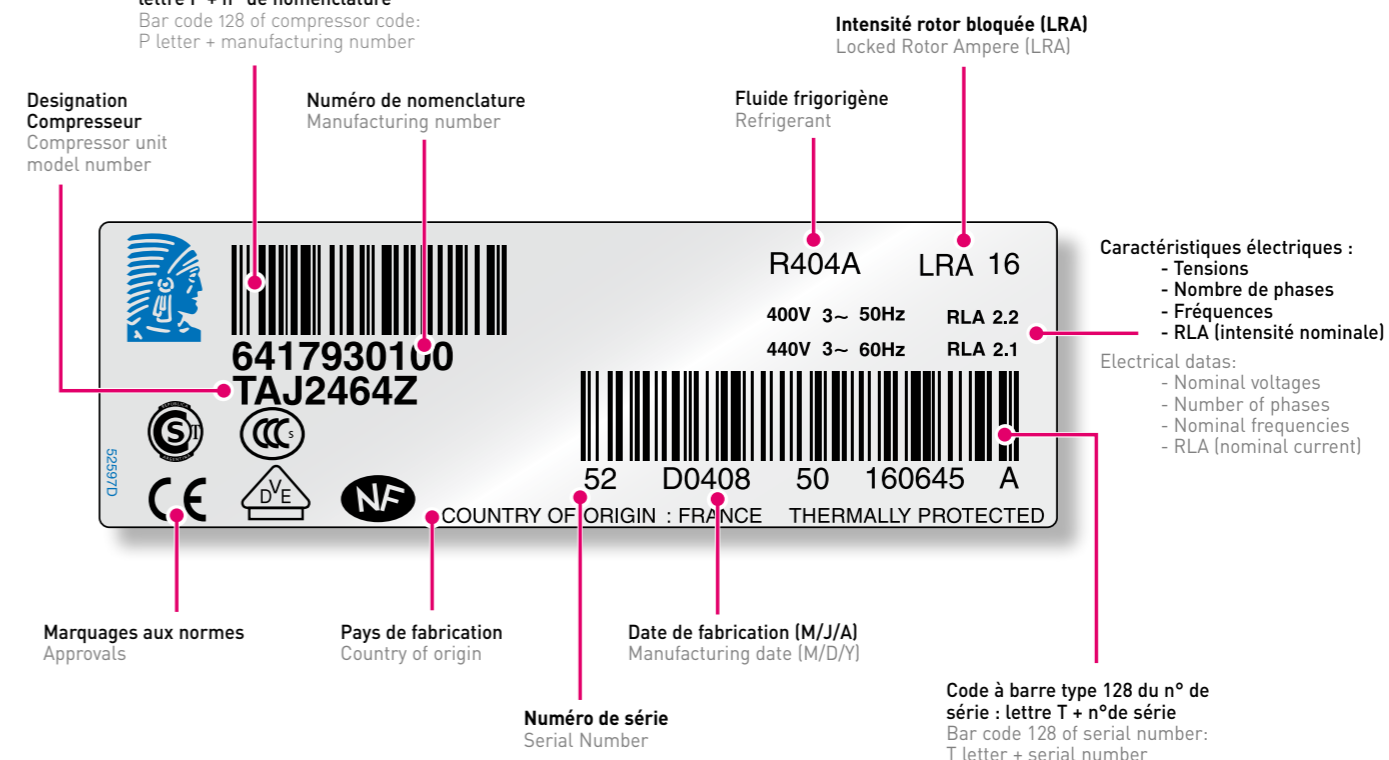
PLAQUES SIGNALÉTIQUES

Les informations complètes définissant un compresseur ou un groupe de condensation sont portées sur la plaque signalétique collée sur le compresseur ou sur le socle du groupe.

IDENTIFICATIONS LABELS

The complete information defining a compressor or condensing unit is found on the identification plate stuck on the compressor or on the base of the condensing unit.

Code à barres de type 128 du code compresseur :
lettre P + n° de nomenclature
Bar code 128 of compressor code:
P letter + manufacturing number



→ **Groupes de condensation, duos et trios**
Condensing units, twin and triple multiplexed



Caractéristiques électriques :
- Tensions
- Nombre de phases
- Fréquences
- RLA (intensité nominale)

Electrical datas:
- Nominal voltages
- Number of phases
- Nominal frequencies
- RLA (nominal current)

